

Amendment filed 12/07/04
Response to OA mailed 11/02/04

U.S.S.N. 10/782,093
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LISTING OF CLAIMS:

1. (Previously Presented) An alarm clock remote control system, comprising:
 - alarm clock circuitry including:
 - a microprocessor, coupled to alarm clock activation circuitry, remote IR diode driving circuitry, an internal buzzer, an alarm, a display, and a plurality of input ports and output ports, for providing central control;
 - the display, coupled to the microprocessor, for displaying at least one of: a current time and an alarm time;
 - a speaker, coupled to the microprocessor, an AM/FM radio unit, the internal buzzer, and the alarm, for outputting selected audio;
 - an AM/FM radio tuner; and
 - clock setup circuitry, alarm setup and activation circuitry coupled to the microprocessor for setting the clock, setting the alarm, and activating a plurality of remote devices; and
 - a programmable universal infrared remote device control, coupled to the alarm clock circuitry, for remote programming the plurality of remote devices, and having activation circuitry for activating the plurality of remote devices.
2. (original) The alarm clock remote control system of claim 1 wherein the display is one of: a light emitting diode and an LCD display.
3. (original) The alarm clock remote control system of claim 1 wherein the remote device is one of a plurality of remote devices controllable by the alarm clock remote control system.
4. (original) The alarm clock remote control system of claim 3 wherein the plurality of remote devices includes at least one of: a television, a video cassette recorder, an electronic device tuner, a compact disk player, a video compact disk player, a digital video/versatile disk player, and a video cassette recorder.

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5. (original) The alarm clock remote control system of claim 1 wherein the selected audio is at least one of: a ringing alarm, a buzzer output, and output of the AM/FM radio unit.

6. (previously presented) A remote control system that includes an alarm clock system, comprising:

alarm clock circuitry including:

a microprocessor, coupled to alarm clock activation circuitry, remote IR diode driving circuitry, an internal buzzer, an alarm, a display, and a plurality of input ports and output ports, for providing central control;

the display, coupled to the microprocessor, for displaying at least one of: a current time and an alarm time;

a speaker, coupled to the microprocessor, an AM/FM radio unit, the internal buzzer, and the alarm, for outputting selected audio;

an AM/FM radio tuner; and

clock setup circuitry, alarm setup and activation circuitry coupled to the microprocessor for setting the clock, setting the alarm, and activating a plurality of remote devices; and

a programmable universal infrared remote device control, coupled to the alarm clock circuitry, for remote programming the plurality of remote devices, and having activation circuitry for activating the plurality of remote devices.

7. (original) The remote control system of claim 6 wherein the display is one of: a light emitting diode and an LCD display.

8. (original) The remote control system of claim 6 wherein the remote device is one of a plurality of remote devices controllable by the remote control system.

9. (original) The remote control system of claim 8 wherein the plurality of remote devices includes at least one of: a television, a video cassette recorder, an electronic device tuner, a compact disk player, a video compact disk player, a digital video/versatile disk player, and a video cassette recorder.

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10. (original) The remote control system of claim 6 wherein the selected audio is at least one of: a ringing alarm, a buzzer output, and output of the AM/FM radio unit.

11. (previously presented) A remote control alarm system, comprising:

a microprocessor/microcontroller, coupled to alarm activation circuitry, a remote controller alarm triggering unit, an alarm, a display, and a plurality of input ports and output ports, for providing central control;

the display, coupled to the microprocessor/microcontroller, for displaying at least one of: a current time and an alarm time;

a speaker, coupled to the microprocessor/microcontroller, for outputting selected audio; and

the microprocessor/microcontroller, and alarm setup and activation circuitry coupled to the remote controller alarm triggering unit for setting the alarm, and activating a plurality of remote devices.

12. (original) The remote control alarm system of claim 11 wherein the display is one of: a light emitting diode and an LCD display.

13. (original) The remote control alarm system of claim 11 wherein the plurality of remote devices includes at least one of: a television, a video cassette recorder, an electronic device tuner, a compact disk player, a video compact disk player, a digital video/versatile disk player, and a video cassette recorder.

14. (original) The alarm clock remote control system of claim , wherein the programmable universal infrared remote device control further comprises an input device having a plurality of input elements, and wherein the alarm clock remote control system is programmed to control the at least one remote devices by a user depressing at least one of the plurality of input elements.

15. (original) The remote control system of claim 6, wherein the programmable universal infrared remote device control further comprises an input device having a plurality of input elements, and wherein the alarm clock remote control system is programmed to control the at

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least one remote devices by a user depressing at least one of the plurality of input elements.

16. (original) A remote control alarm system of claim 11, wherein the microprocessor/microcontroller is further coupled to an input device having a plurality of input elements, and wherein the remote control alarm system is programmed to control the at least one remote device by a user depressing at least one of the plurality of input elements.

17. (previously presented) An alarm clock remote control system, comprising:

a display for displaying at least one of: a current time and at least one alarm time;

an internal alarm module that alerts a user when the internal alarm module is activated;

a timing module that maintains the current time;

a programmable universal remote control module that transmits a wireless signal to at least one remote device when instructed; and

a processor module that is coupled to the internal alarm module, the timing module, and the programmable universal remote control module and that is configured to perform:

(a) if an alarm function is on and the current time approximately equals a predetermined internal alarm time, activating the internal alarm module; and

(b) if the alarm function is on and the current time approximately equals a first predetermined remote alarm time, instructing the programmable universal remote control module to transmit a first wireless signal to a first remote device, wherein the first wireless signal activates the first remote device.

18. (previously presented) The remote clock remote control system of claim 17, wherein

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the processor module is configured to perform:

(c) if the alarm function is on and the current time approximately equals a second predetermined remote alarm time, instructing the programmable universal remote control module to transmit a second wireless signal to a second remote device, wherein the second wireless signal activates the second remote device.

19. (previously presented) The alarm clock remote control system of claim 17, wherein the processor module is configured to perform:

(d) identifying the first remote device from a stored first device value.

20. (previously presented) The alarm clock remote control system of claim 17, further comprising:

an input module that includes a plurality of input elements, wherein the user configures the alarm clock remote control system, and wherein the processor module is configured to perform:

(c) receiving, from the input module, an internal alarm indicator corresponding to the user selecting a selected combination of input elements; and

(d) in response to (c), storing the predetermined internal alarm time.

21. (previously presented) The alarm clock remote control system of claim 20, wherein the user selects another combination of input elements, and wherein the processor module is configured to perform:

(e) receiving, from the input module, a first remote indicator

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corresponding to the user selecting another combination of input elements; and

(f) in response to (e), storing the first predetermined remote alarm time.

22. (previously presented) The alarm clock remote control system of claim 21, wherein the first remote indicator is also indicative of a configuration setting of the first remote device, and wherein the first wireless signal configures the first remote device in accordance with the configuration setting.

23. (previously presented) The alarm clock remote control system of claim 17, wherein the processor module is configured to perform:

(c) if the current time approximately equals a first sleep remote time, instructing the programmable universal remote control module to transmit a corresponding wireless signal to the first remote device, the corresponding wireless signal deactivating the first remote device.

24. (previously presented) The alarm remote control system of claim 7, wherein the programmable universal remote control module transmits wireless signals utilizing an infrared electromagnetic spectrum.

25. (previously presented) The alarm remote control system of claim 1, wherein the internal alarm module comprises:

a radio module that provides a selected radio channel when the radio module is activated; and

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an audio alarm module that generates a repetitive sound when the audio alarm module is activated.

26. (previously presented) The alarm clock remote control system of claim 1, wherein the display is selected from the group consisting of a light emitting diode and an LCD display.

27. (previously presented) A method for providing an alarm notification to a user, comprising:

- (a) determining a current time and at least one alarm time;
- (b) if an alarm function is on and if the current time is approximately equal to an predetermined internal alarm time, activating an internal alarm module, wherein an internal alarm module generates the alarm notification to the user; and
- (c) if the alarm function is on and if the current time is approximately equal to a first predetermined remote alarm time, transmitting a first wireless signal to a first remote device, wherein the first wireless signal activates the first remote device.

28. (previously presented) The method of claim 27, wherein the first remote device is selected from the group consisting of a television, a video cassette recorder, an electronic device tuner, a compact disk player, a video compact disk player, a digital video/versatile disk player, and a video cassette recorder.

29. (previously presented) The method of claim 27, further comprising:

- (d) if the alarm function is on and the current time approximately equals a second predetermined remote alarm time, transmitting a second wireless signal to a second remote device, wherein the second wireless signal activates the second remote device.

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30. (previously presented) The method of claim 27, further comprising:
- (c) receiving an internal alarm indicator corresponding to the user selecting a selected combination of input elements; and
 - (d) in response to (c), storing the predetermined internal alarm time.
31. (previously presented) The method of claim 30, further comprising:
- (e) receiving a first remote indicator corresponding to the user selecting another combination of input elements; and
 - (f) in response to (e), storing the first predetermined remote alarm time.
32. (previously presented) The method of claim 27, further comprising:
- (d) displaying an activation status of the at least remote device and the internal alarm module.
33. (previously presented) The method of claim 27, further comprising:
- (d) if the current time approximately equals a first sleep remote time, instructing the programmable universal remote control module to transmit a corresponding wireless signal to the first remote device, the corresponding wireless signal deactivating the first remote device.
34. (previously presented) The method of claim 27, further comprising:
- (d) identifying the first remote device from a stored first device value when activating the first remote device.
35. (previously presented) An alarm clock remote control system, comprising:
- a display for displaying at least one of: a current time and at least one alarm time;
 - an input module that includes a plurality of input elements, wherein a user configures the alarm clock remote control system;
 - an internal alarm module that alerts the user when the internal alarm module is

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activated;

a timing module that maintains the current time;

a programmable universal remote control module that transmits a wireless signal to at least one remote device when instructed, the programmable universal remote control module utilizing an infrared (IR) spectrum; and

a processor module that is coupled to the internal alarm module, the timing module, and the programmable universal remote control module and that is configured to perform:

(a) receiving, from the input module, at least one indicator that is indicative of a predetermined alarm time, the indicator corresponding to a combination of input elements selected by the user;

(b) displaying an activation status of the at least remote device and the internal alarm module;

(c) if an alarm function is on and the current time approximately equals a predetermined internal alarm time, activating the internal alarm module; and

(d) if the alarm function is on and the current time approximately equals a first predetermined remote alarm time, instructing the programmable universal remote control module to transmit a first wireless signal to a first remote device, wherein the first wireless signal activates the first remote device.